



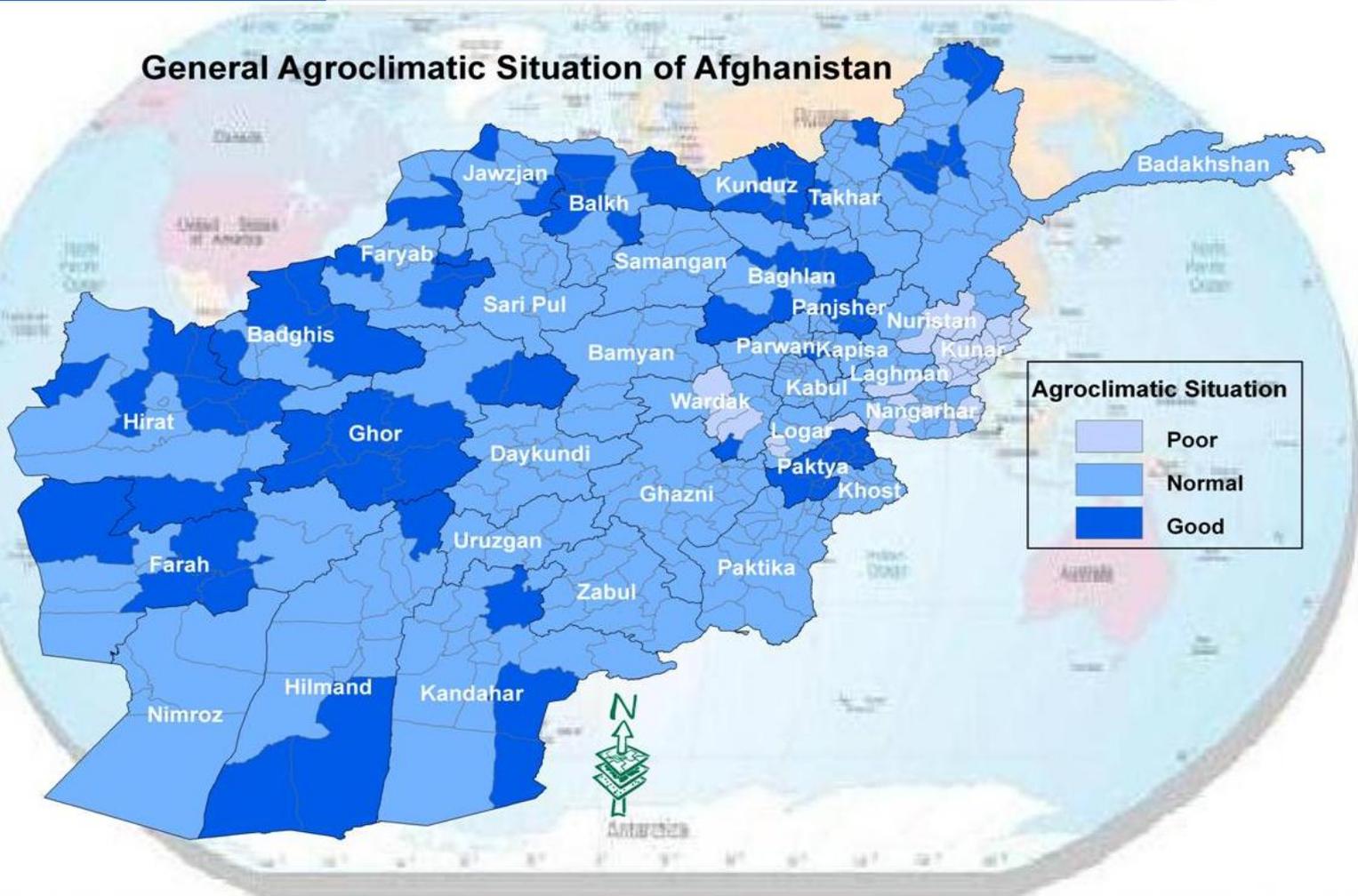
Issue No: 63

May: 2010

The **fghanistan** Agrometeorological **AM** Monthly Bulletin

Topics Crop Information Precipitation Temperature NDVI

General Agroclimatic Situation of Afghanistan



Adverse Factor

1 Crop Condition

2 Crop Stage

3



The Agromet Project of USGS, supported by United State Agency for International Development (USAID), is working together with the Ministry of Agriculture, Irrigation and Livestock (MAIL) and the Afghan Meteorological Authority (AMA) of Ministry of Transport (MoT)

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Issue No: 63
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The Afghanistan's Agromet Monthly Bulletin is being Published on monthly Bases in Dari and English Language.

Supported by:

United State Agency
for International
Development (USAID)

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Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project , Afghan Meteorological Authority (AMA), United States Geological Survey (USGS), Food and Agriculture Organization of United Nation (FAO)

Summary

Throughout the month of May 2010 the country experienced good precipitation, low pressure systems brought adequate moisture in to the region which resulted sufficient precipitation in most parts of the country. Although, as usual precipitation was light during this month rainfall for the month of May 2010 was higher than the same month of last year and long term average.

The Northeastern and some parts in the Eastern region received good amount of rainfall during May 2010, and some parts of the Northern, Capital, Central Highlands and Southeastern region experienced moderate rainfall, while the Western Southwestern and Southern regions had received low amount of rainfall.

The country experienced more rainy days during the month of May 2010 compared to the same month of last year.

Starting January 2010 up to the month of May 2010 temperature remained higher compared to the same months of last year and had an increase in most parts of the country. Rising of temperature was accompanied by positive departure in most parts of the country during May 2010.

Snow fall continued up to the beginning of May 2010 as separated in high elevations of the Northeastern region and Hindokosh Mountains, particularly in Salang station. The snowfall was light and no increase in snow pack was observed, higher temperature during the month of May 2010 was accompanied with rapid and early snow melting.

Wheat Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Grain filling	Normal	Not existed
		Paghman	Paghman	Grain filling	Normal	Excessive weeds
		Kabul	Darulaman	Grain filling	Normal	Shortage of inputs
		Surubi	Surubi	Harvesting		
	Panjsher	Dara	Dara	Grain filling	Normal	Not existed
		Dashtak	Dashtak	Grain filling	Good (better than normal)	Not existed
	Parwan	Syagerd	Syagerd	Grain filling	Normal	1-Shortage of inputs 2-Rust of wheat
		Charikar	Charikar	Grain filling	Normal	Shortage of inputs
	Kapisa	Mahmoodraqi	Mahmoodraqi	Grain filling	Normal	Excessive weeds
		Kohistan	Kohistan	Grain filling	Normal	Excessive weeds
	Wardak	Chak	Chak	Vegetative	Good (better than normal)	Not existed
		Jaghato	Jaghato	Vegetative	Good (better than normal)	Not existed
East Central	Bamyan	Bamyan	Bamyan	Vegetative	Good (better than normal)	1- Shortage of inputs 2-pesticide 3- herbicide
		Yakawlang	Yakawlang	Vegetative	Normal	Low precipitation
		Panjab	Panjab	Vegetative	Normal	Low precipitation
Eastern	Noristan	Paroon	Paroon	Vegetative	Normal	Low precipitation

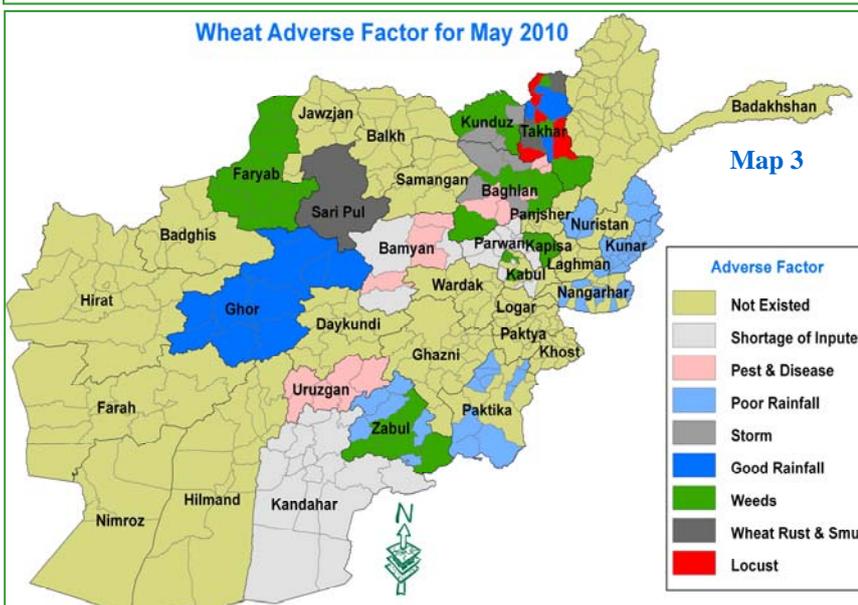
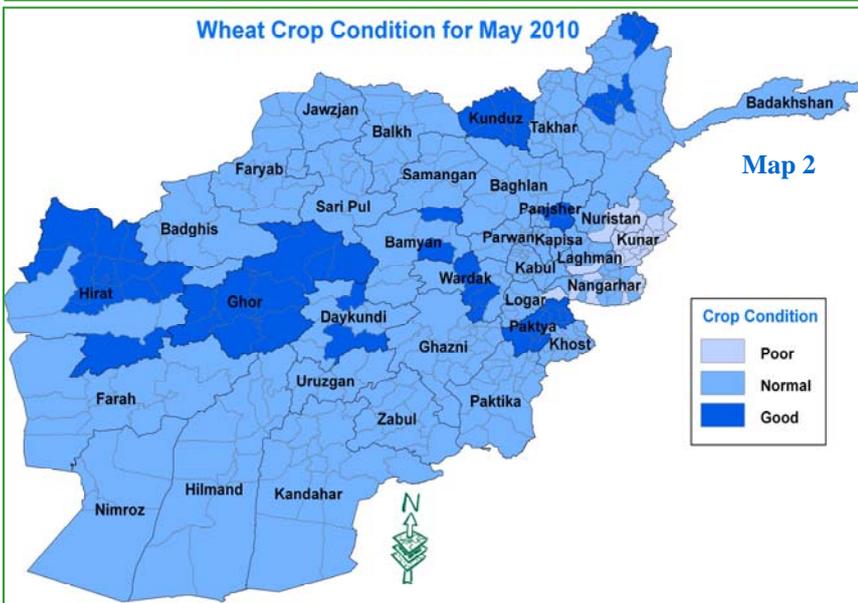
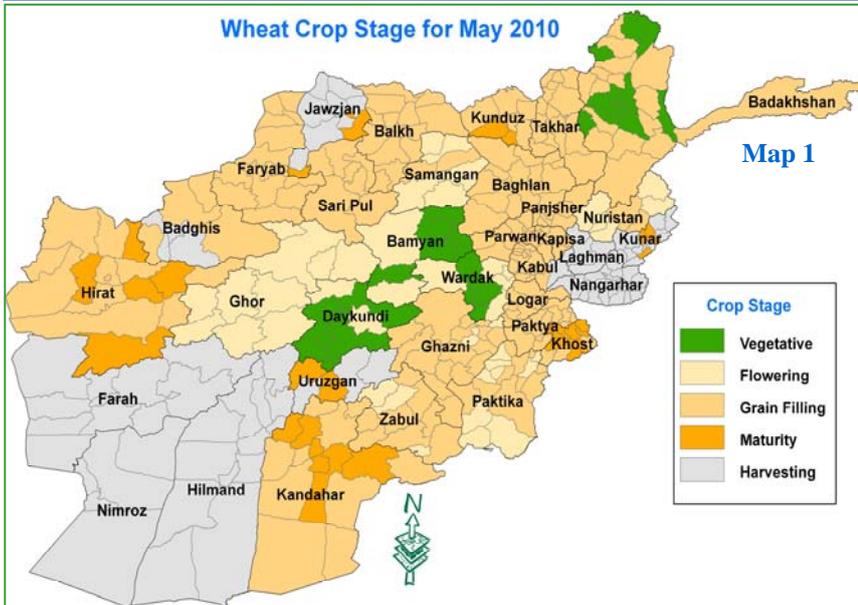
Wheat Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat			
				Crop Stage	Crop Condition	Adverse Factor	
Eastern	Nangarhar	Duab	Duab	Flowering	Normal	Low precipitation	
		Agam	Agam	Harvesting	Harvesting	Harvesting	
		Batikot	Ghaziabad	Harvesting			
		Jalalabad	Sheshembagh				
		Jalalabad	Farm Jadeed				
	Kunar	Asmar	Asmar	Harvesting			
		Asadabad	Asadabad	Harvesting			
Laghman	Mihtarlam	Mihtarlam	Harvesting				
Northeastern	Takhar	Bangi	Bangi	Grain filling	Normal	1- Rust, Aphids, Locust. 2- Excessive weeds. 3-Much rainfall, 4- wheat appending	
		Taluqan	Taluqan	Grain filling	Normal	1- Rust, Aphids. 2- Excessive weeds. 3-Wheat appending.	
	Kunduz	Imam Sahib	Imam Sahib	Grain filling	Good (better than normal)	1- Storm 2- Excessive weeds	
		Qaliazal	Aqtipa	Grain filling	Good (better than normal)	1- Storm 2- Excessive weeds	
		Chardara	Chardara	Grain filling	Good (better than normal)	1- Storm 2- Excessive weeds	
		Kunduz	Kunduz	Grain filling	Good (better than normal)	1- Storm 2- Excessive weeds	
	Baghlan	Pulikhomri	Pozaishan	Grain filling	Normal	1- Wheat rust 2- Excessive weeds 3- Storm	
	Badakhshan	Faizabad	Faizabad	Grain filling	Good (better than normal)	Not existed	
		Khash	Khash	Vegetative	Normal	Not existed	
		Baharak	Baharak	Grain filling	Good (better than normal)	Not existed	
	South Eastern	Khost	Khost	Khost	Grain filling	Normal	Not existed
Khost			Shimal	Grain filling	Normal	Not existed	
Ali Sher			Ali Sher	Grain filling	Normal	Not existed	
Paktai		Zormat	Rohani Baba	Grain filling	Good (better than normal)	Not existed	
		Gardiz	Tera	Grain filling	Good (better than normal)	Not existed	
Paktika		Urgon	Urgon	Flowering	Normal	Not existed	
		Sharana	Sharana	Flowering	Normal	Not existed	
		Khairkot	Khairkot	Flowering	Normal	Low precipitation	
Ghazni		Muqur	Muqur	Grain filling	Normal	Not existed	
	Andar	Bande Sardi	Grain filling	Normal	Not existed		

Wheat Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Southern	Nimroz	Zaranj	Zaranj	Harvesting		
	Kandahar	Kandahar	Kandahar	Grain filling	Normal	Shortage of inputs
	Zabul	Qalat	Qalat	Flowering	Normal	1- Less rainfall 2- less water for irrigation 3- Excessive weeds
	Urozgan	Tarinkot	Tarinkot	Harvesting	Normal	Not existed
	Hilmand	Nad Ali	Nad Ali	Harvesting		
		Greshk	Greshk			
		Nawa	Nawa			
		Lashkargah	Bolan	Harvesting	Normal	Aphids
Northern	Balkh	Dihdadi	Dihdadi	Grain filling	Normal	Not existed
		Nahrishahi	Nahrishahi	Grain filling	Normal	Not existed
	Jawzjan	Sheberghan	Sheberghan	Harvesting		
		Darzab	Darzab			
	Saripul	Saripul	Saripul	Grain filling	Normal	Wheat rust
		Sozmaqala	Sozmaqala	Grain filling	Normal	Wheat Smut
	Faryab	Maimana	Maimana	Grain filling	Normal	Excessive weeds
		Andkhoy	Andkhoy	Grain filling	Normal	Excessive weeds
	Samangan	Aibak	Aibak	Flowering	Normal	Not existed
		Dara Souf Bala	Dara Souf Bala	Flowering	Normal	Not existed
Western	Badghis	Qalainow	Qalai now	Grain filling	Normal	Not existed
		Muqur	Muqur	Harvesting	Harvesting	Harvesting
	Ghor	Chaghcharan	Chaghcharan	Flowering	Good (better than normal)	More rainfall
	Hirat	Shindand	Shindand	Grain filling	Normal	1- Locusts 2- Excessive weeds
		Zindajan	Zindajan	Grain filling	Good (better than normal)	Not existed
		Gwazara	Falahat	Grain filling	Good (better than normal)	Not existed
		Hirat	Farm Urdokhan	Grain filling	Good (better than normal)	Not existed
	Farah	Farah	Farah	Harvesting		

Wheat Crop Stage, Condition and Adverse Factor Maps



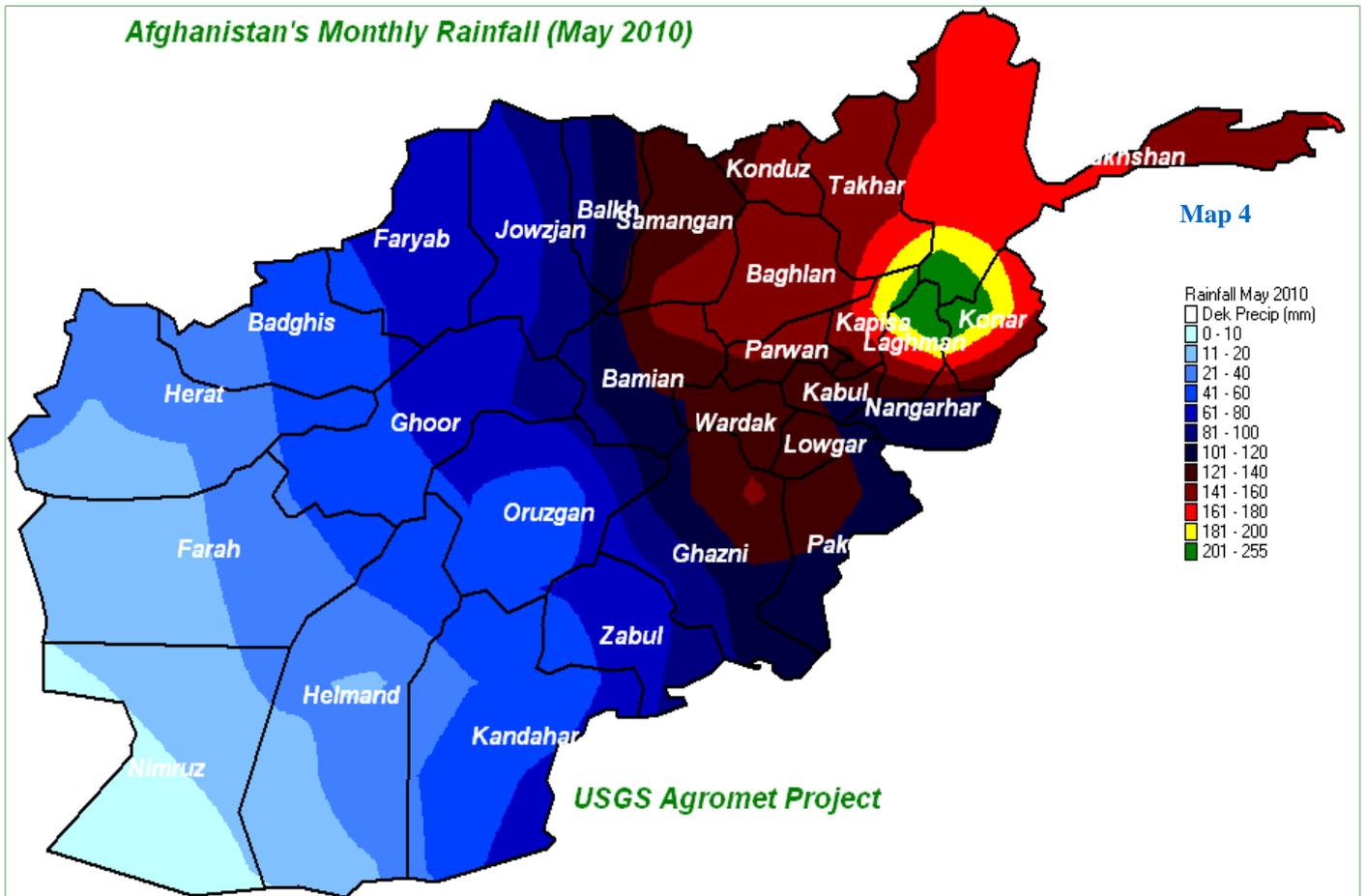
Precipitation

Throughout the month of May 2010 the country experienced good precipitation, low pressure systems brought adequate moisture in to the region which resulted sufficient precipitation in most parts of the country. Although, as usual precipitation was light during this month rainfall for the month of May 2010 was higher than the same month of last year and long term average.

Comparison of rainfall data for the month of May 2010 with the same month in 2009 (chart 1) shows an increase of rainfall during the month of May 2010 over the same month of last year in most parts of the country, but in some stations we had decrease in rainfall.

Comparison of rainfall data for the month of May 2010 with the same month of long term average (chart 2) shows an increase of rainfall during the month of May 2010 compared to the same month of long term average all over the country.

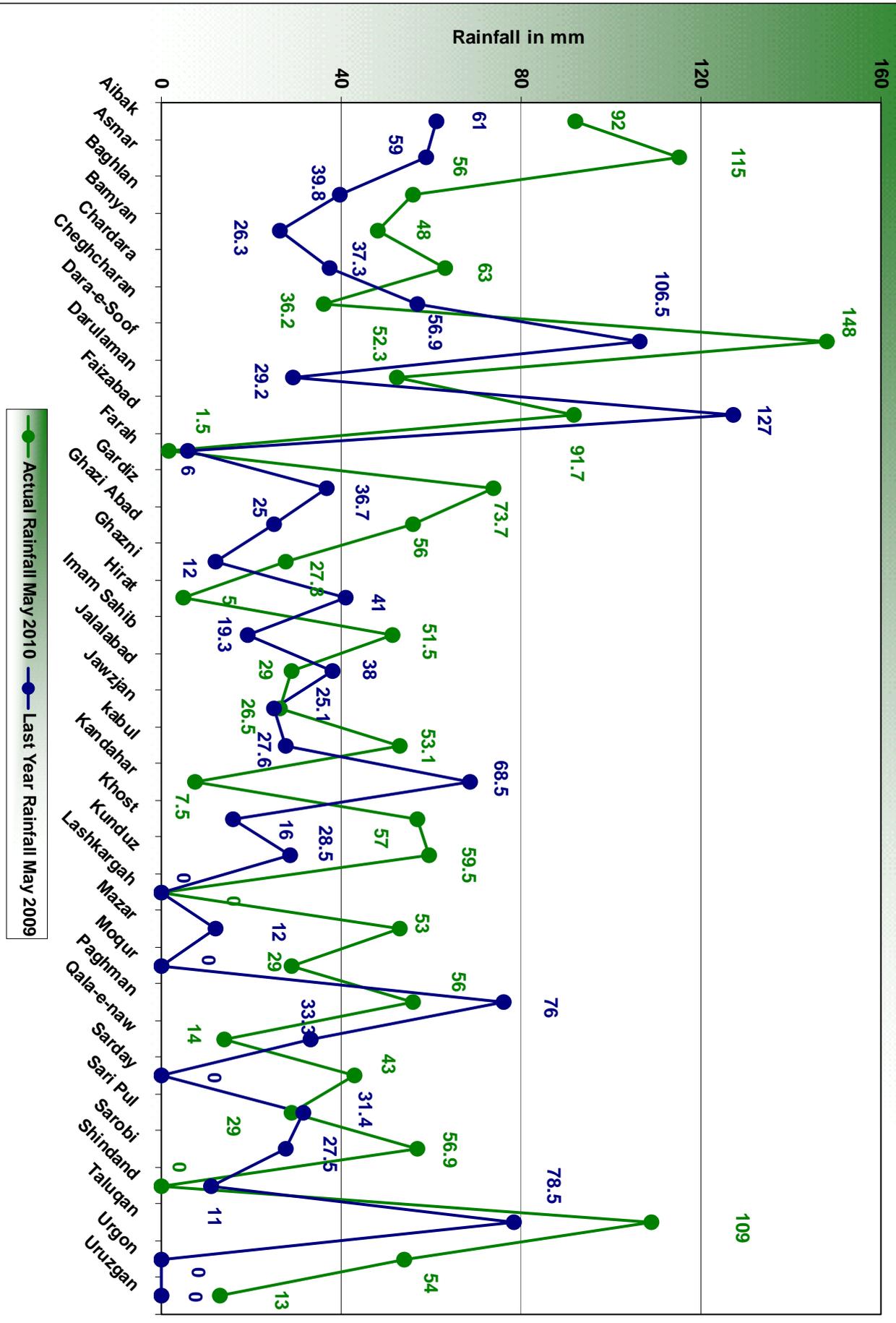
As usual, distribution of rainfall for the month of May 2010 was variable in different regions of the country. As Map (4) shows The Northeastern and some parts in the Eastern region received good amount of rainfall during the month of May 2010, some parts of the Northern, Capital, Central Highlands and Southeastern region experienced moderate rainfall, while the Western Southwestern and Southern regions had low amount of rainfall.



Rainfall Graphs for the Month of May 2010

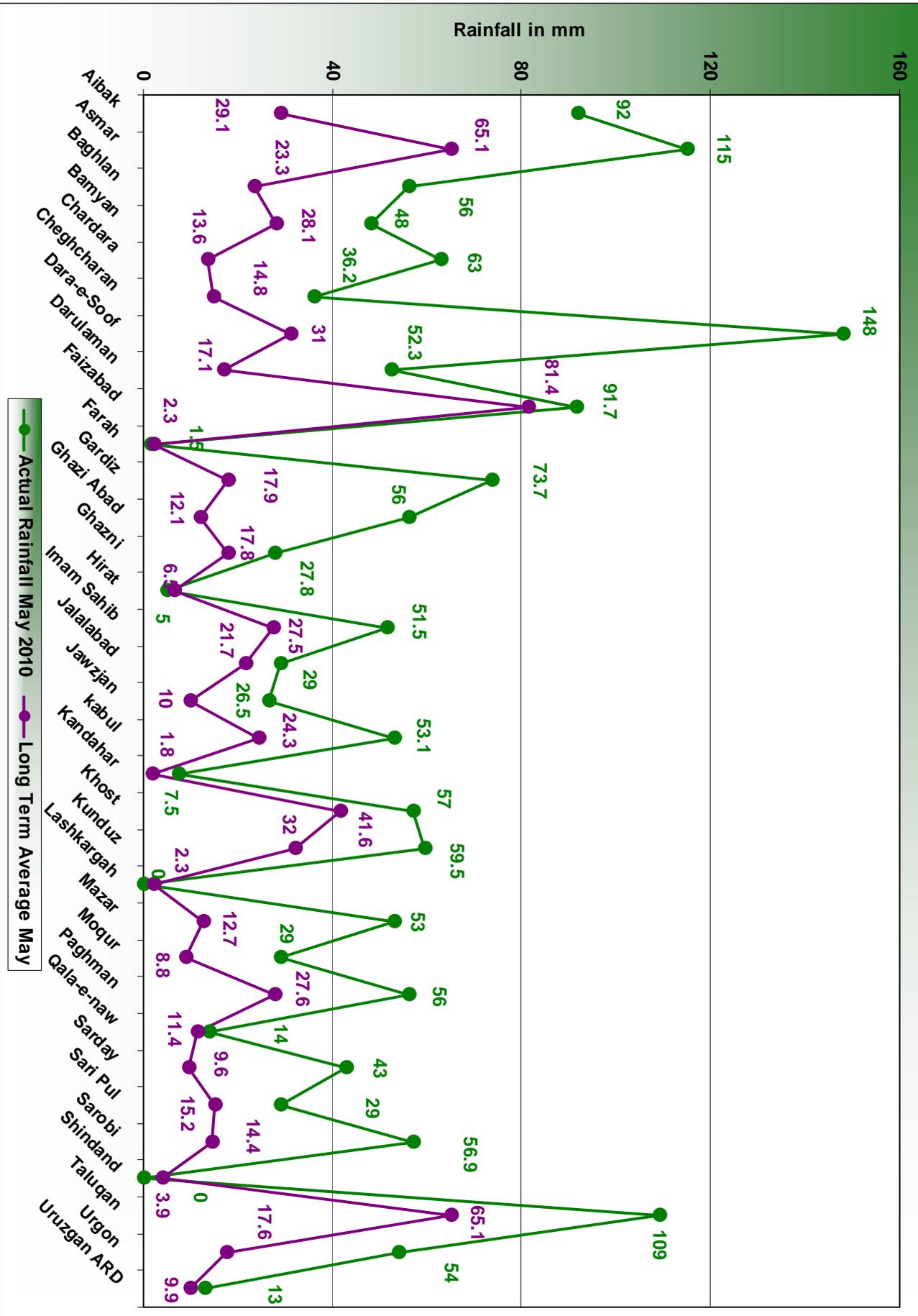
Comparison of Actual Rainfall May 2010 with the Same Month of Last Year

Chart 1



Comparison of Actual Rainfall May 2010 with the Same Month of Long Term Average

Chart 2



Rainfall for the Month of May 2010

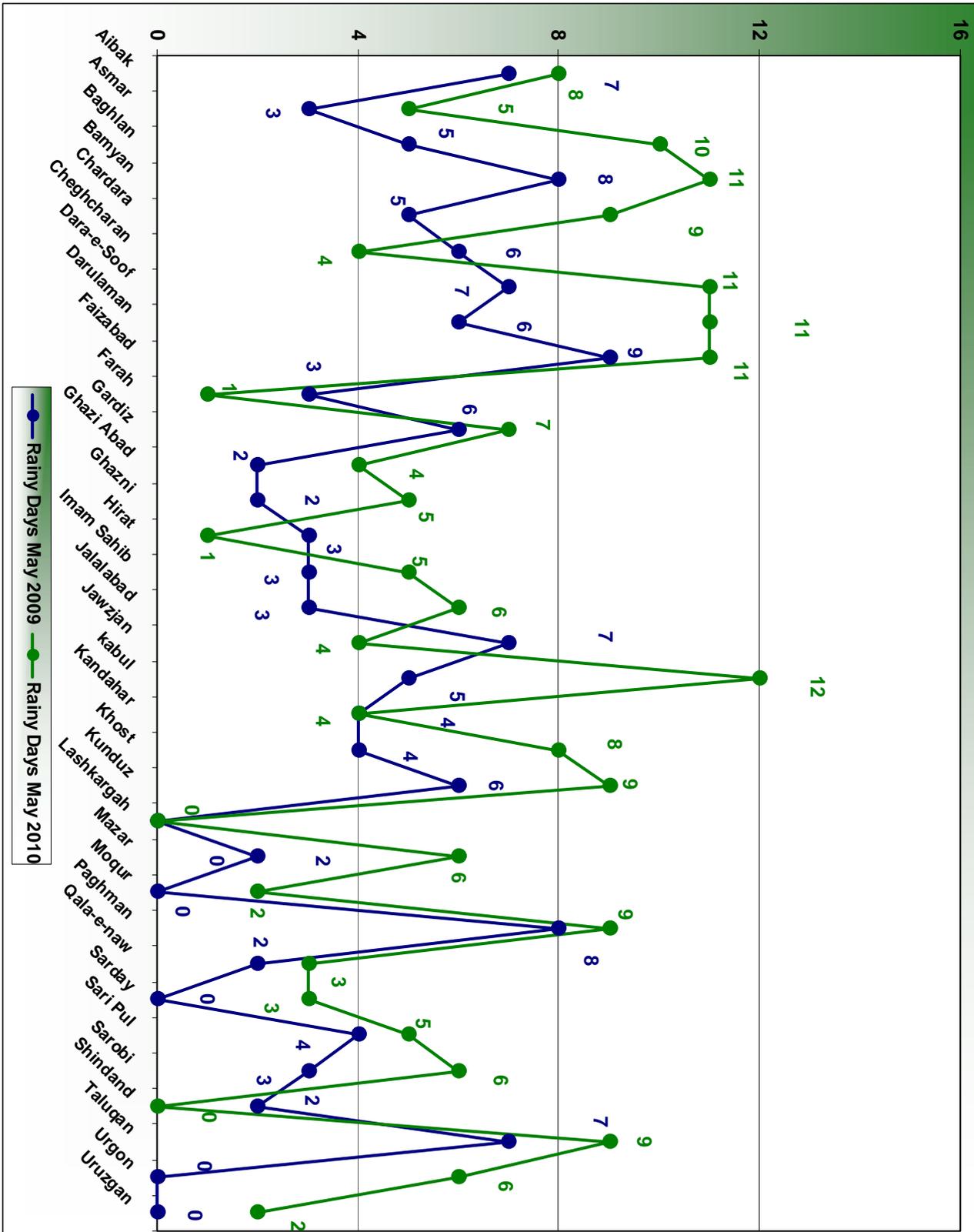
Table 1

Name	Last Year Rainfall (May 2009)	Actual Rainfall (May 2010)	Long Term Average (May)
Aibak	61	92	29.1
Asmar	59	115	65.1
Baghlan	39.8	56	23.3
Bamyan	26.3	48	28.1
Chardara	37.3	63	13.6
Cheghcharan	56.9	36.2	14.8
Dara-e-Soof	106.5	148	31
Darulaman	29.2	52.3	17.1
Faizabad	127	91.7	81.4
Farah	6	1.5	2.3
Gardiz	36.7	73.7	17.9
Ghazi Abad	25	56	12.1
Ghazni	12	27.8	17.8
Hirat	41	5	6.5
Imam Sahib	19.3	51.5	27.5
Jalalabad	38	29	21.7
Jawzjan	25.1	26.5	10
kabul	27.6	53.1	24.3
Kandahar	68.5	7.5	1.8
Khost	16	57	41.6
Kunduz	28.5	59.5	32
Lashkargah	0	0	2.3
Mazar	12	53	12.7
Moqur	0	29	8.8
Paghman	76	56	27.6
Qala-e-naw	33.3	14	11.4
Sarday	0	43	9.6
Sari Pul	31.4	29	15.2
Sarobi	27.5	56.9	14.4
Shindand	11	0	3.9
Taluqan	78.5	109	65.1
Urgon	0	54	17.6
Uruzgan	0	13	9.9

Rainy Days for the Month of May 2010

Comparison of Actual Rainy Days May 2010 with the Same Month of Last Year

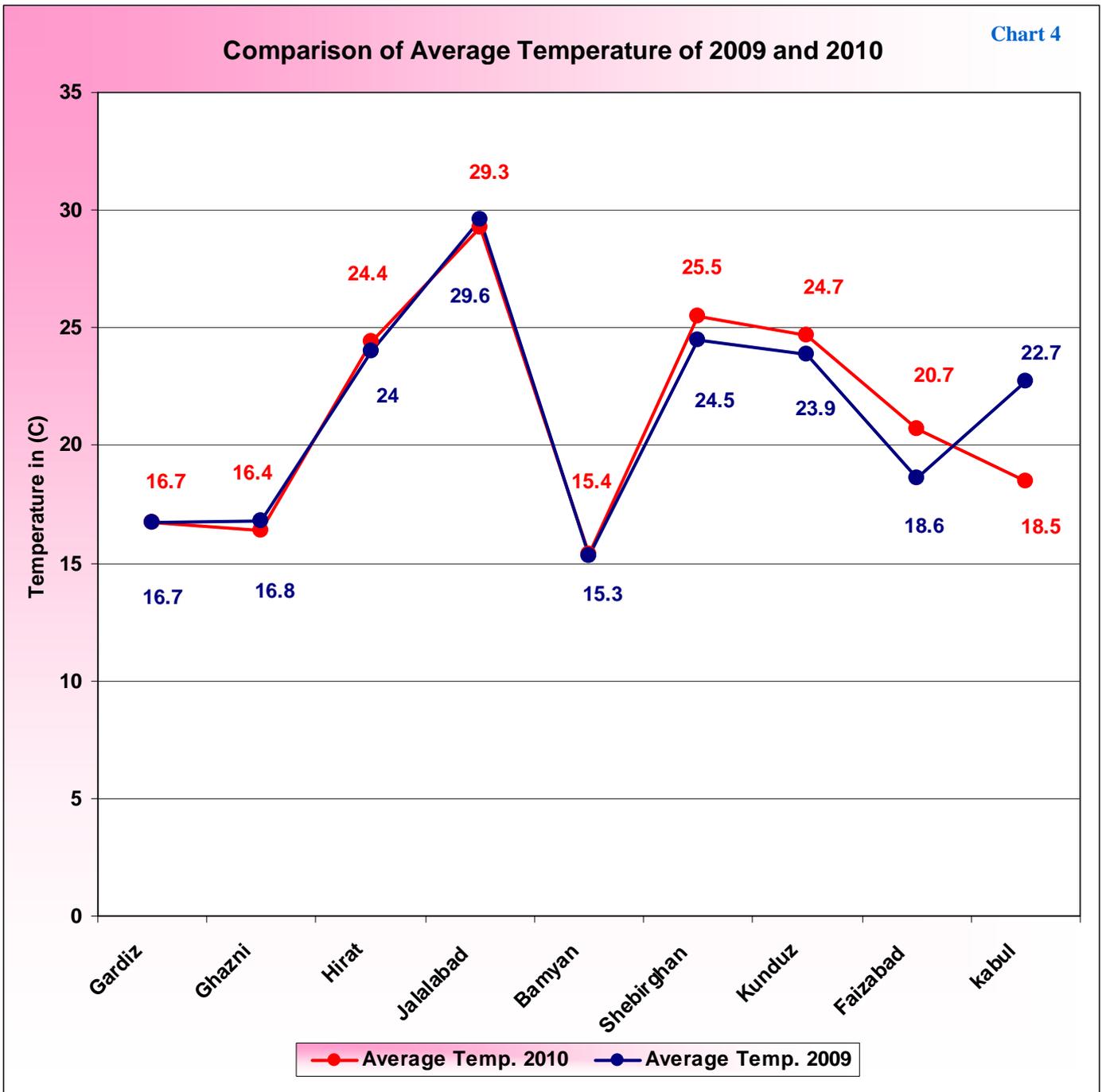
Chart 3



The country experienced more rainy days during the month of May 2010 compared to the same month of last year. Comparison of rainy days for the month of May 2010 with the same month in 2009 (chart3) shows an increase of rainy days during the month

of May 2010 compared to the same month in 2009 in most parts of the country, except Farah, Herat, Jowzjan, and Shindand where rainy days had a decrease during the month of May 2010 over the same month of last year.

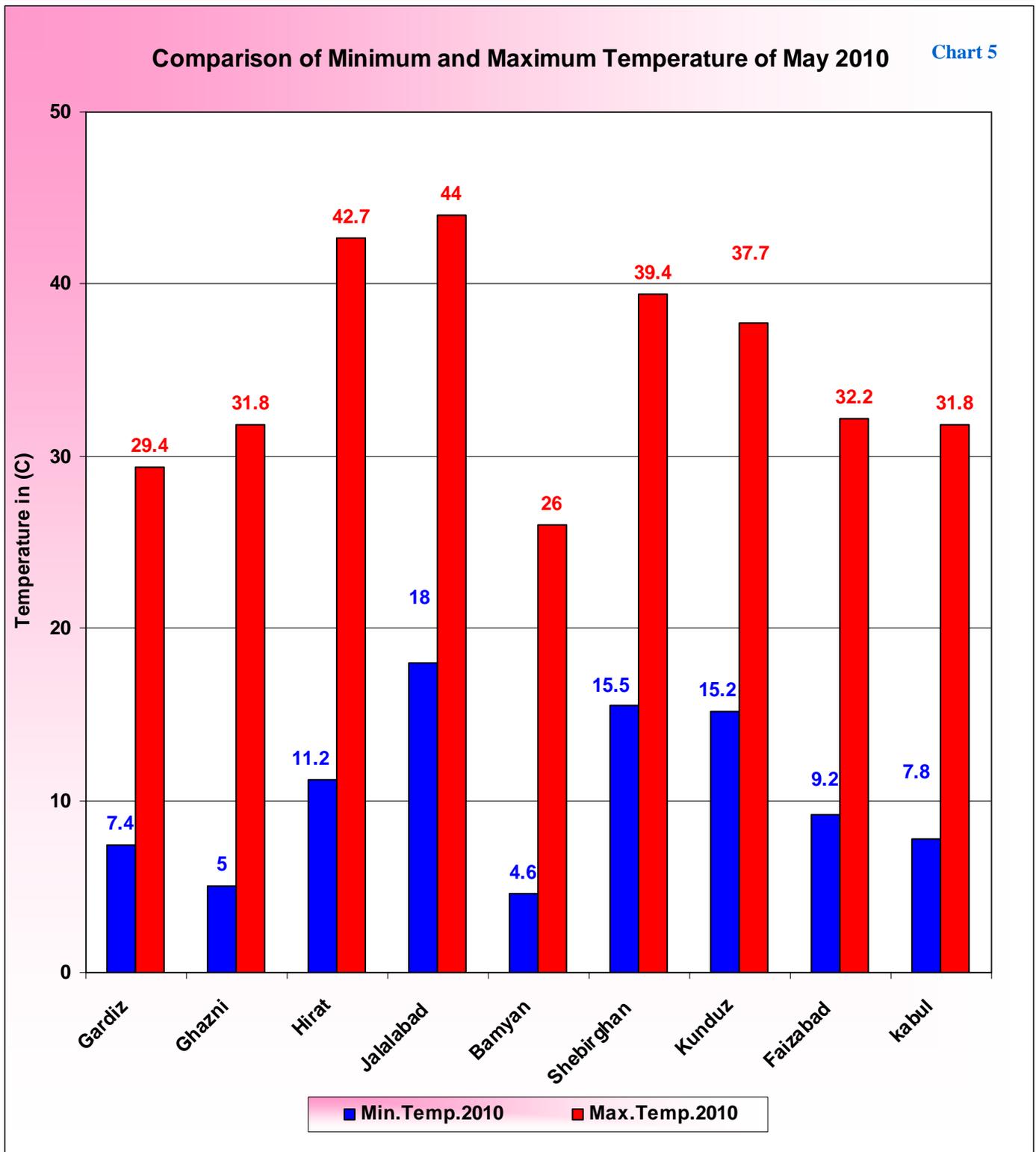
Chart 4



Rising temperature during the month of May 2010 was accompanied with positive departure in most parts of the Country.

Starting January 2010 up to the month of May 2010 temperature remained higher compared to the same month of last year, temperature had an increase in most parts of the country. Rising temperature during the month of May 2010 was accompanied with positive departure in most parts of the Country.

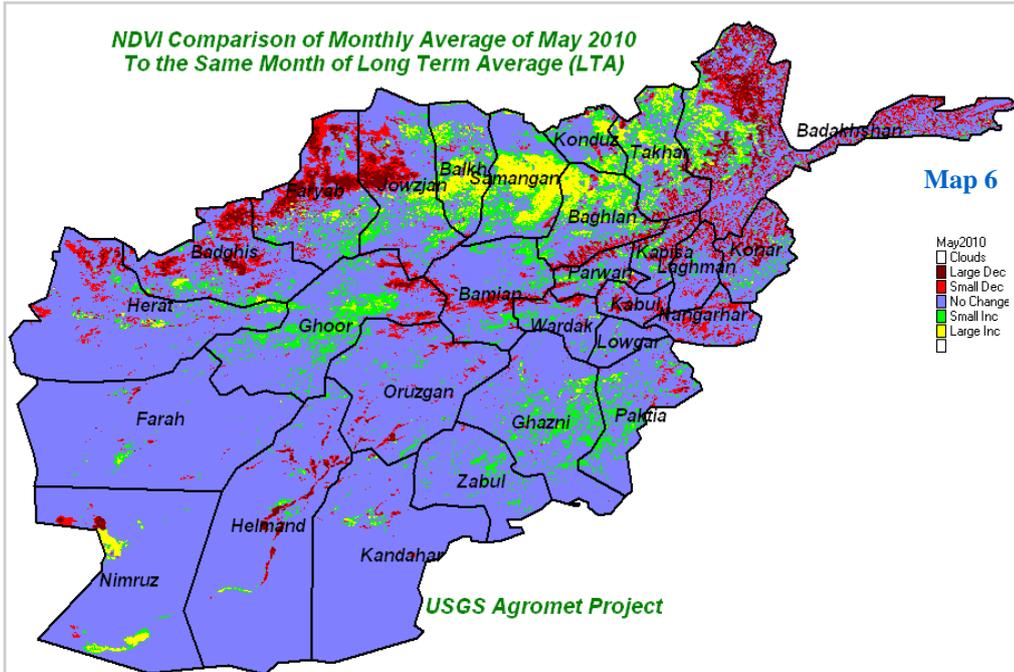
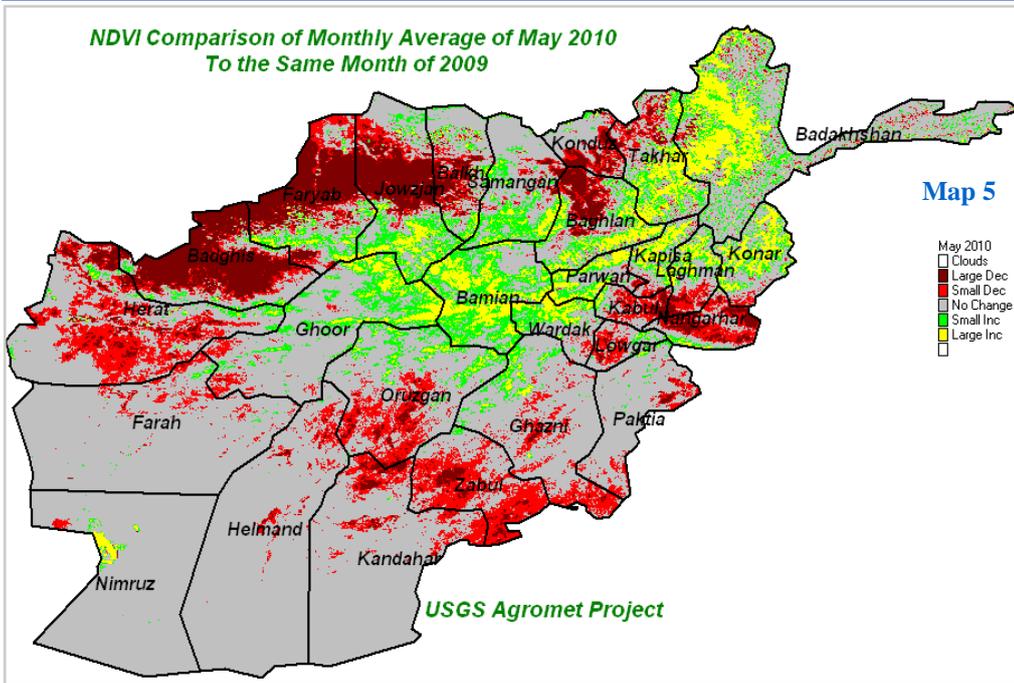
Comparison of temperature for the month of May 2010 with the same month of last year (chart4) shows no significant change in temperature during the month of May 2010 over the same month of last year, but temperature was slightly higher during the month of May 2010 compared to the same month of last year.



Jalalabad with 44 C° was the warmest spot of the country during the month of May 2010.

Chart (5) shows maximum and minimum temperature for the month of May 2010. As chart (5) shows Jalalabad with 44 C° was the warmest spot of the country during this month Bamyān with 4.6 C° experienced lowest temperature.

Comparison of (NDVI) May 2010



Comparison of monthly average of NDVI for the month of May 2010 with the same month in 2009 Map (5) shows mostly large increase of NDVI in Central Highlands, Capital region and Northeastern region large decrease occurred in NDVI in the Northern and Northwestern too, while small decrease occurred in NDVI in the Western region, some parts in the Southeastern and Eastern regions during the month of May 2010 over the same month of last year.

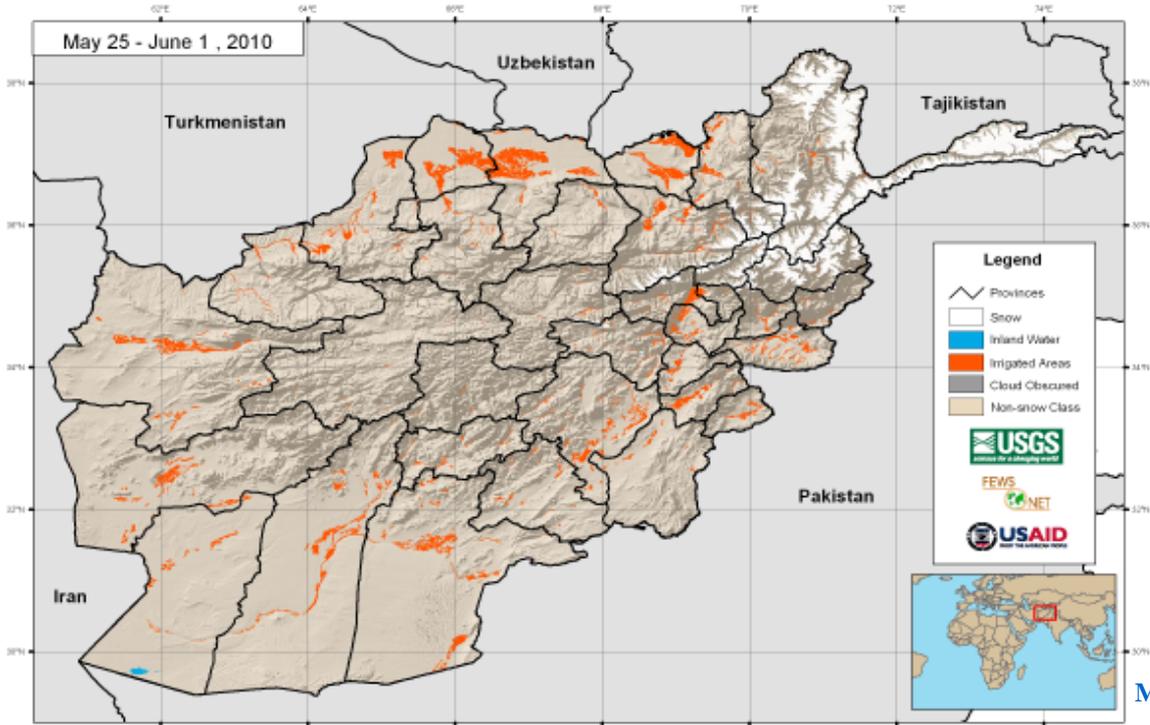
There is no change of NDVI in the Southern and Southwestern regions during the month of May 2010 compared to the same month in 2009.

Comparison of monthly average of NDVI for the month of May 2010 with the same month of long term average Map (6) shows large increase of NDVI in the Northern region during the month of May 2010 compared to the same month of long term average, mostly small decrease occurred in NDVI in the Northeastern, Eastern, some parts in the Capital and Northwestern regions during the month of May 2010 compared to the same month of long term average.

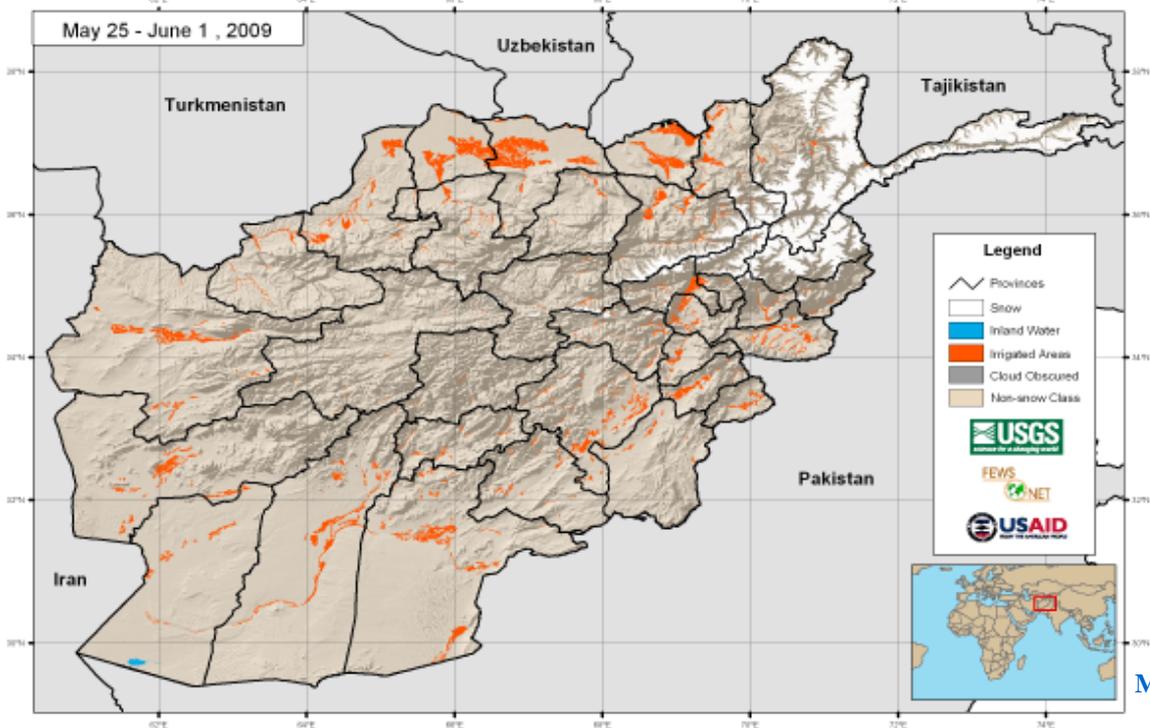
There is no change of NDVI in remained regions of the country during the month of May 2010 over the same month of long term average.

Comparison of Snow Extent

MODIS 8-day Snow Cover Extent - Current Period 2010 vs 2009



Map 7

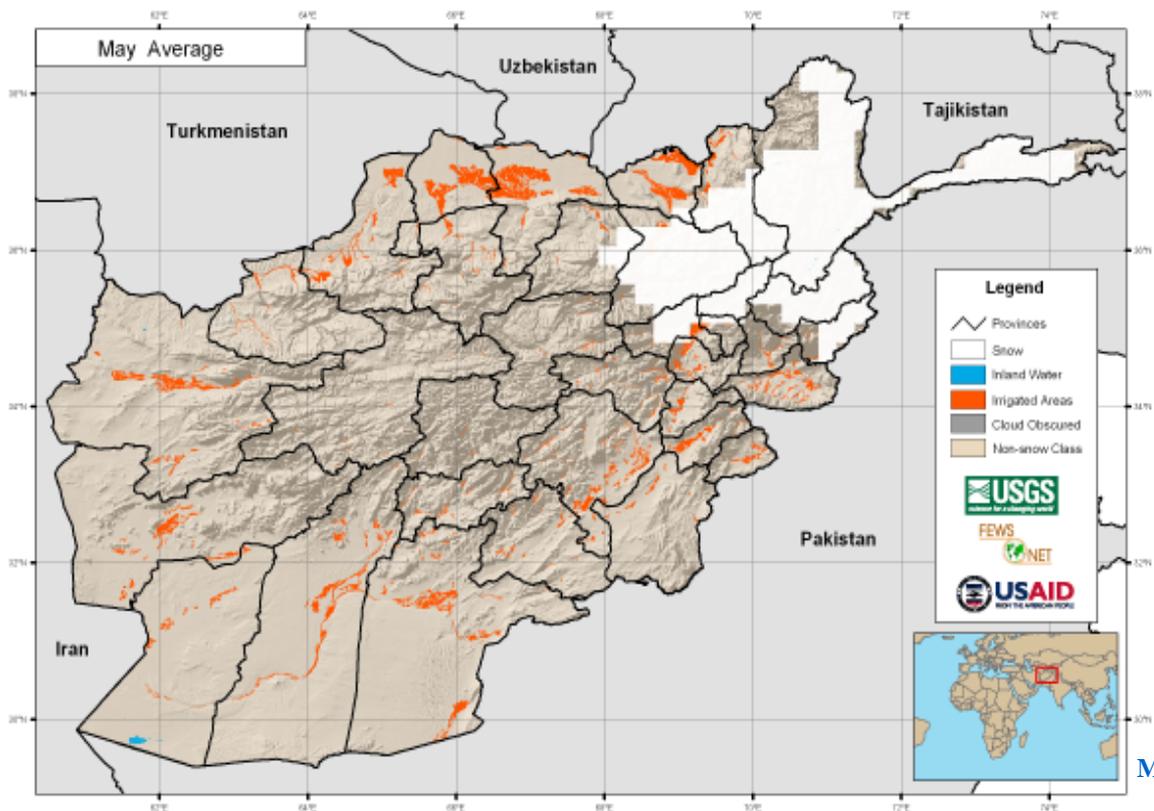
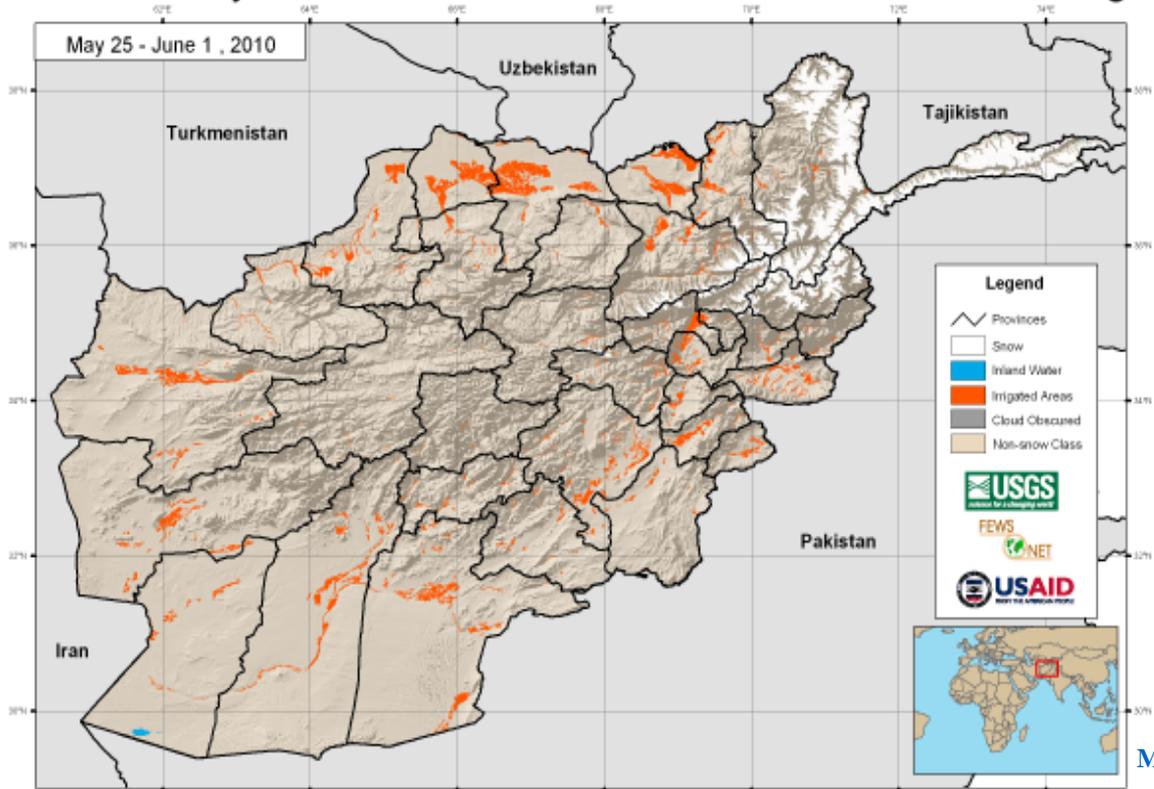


Map 8

Although snow fall has been recorded up to the beginning of May as separated in high elevations of the Northeastern region and Hindokosh Mountains, particularly in Salang station, but the snowfall was light and no increase in snow pack, was made there is no change in snow extent during May 2010 over the same month of last year, and higher temperature during May 2010

resulted rapid and early snow melting. Comparison of snow extent for the period (May 25 – June 01) 2010 with the same period in 2009 Map(7 - 8) shows no significant change occurred in snow extent during above mentioned period of May 2010 compared to the same period of last year.

MODIS 8-day Snow Cover Extent - Current vs. Historical Average

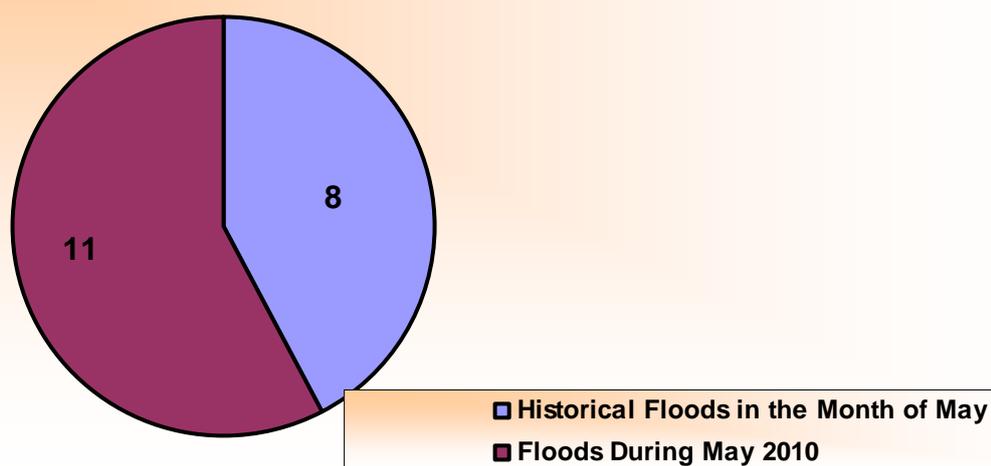


Comparison of snow extent for the month of May 2010 with the same month of long term average. Map(9-10) shows a decrease of snow extent during the month of May 2010 over the same month of long term average.

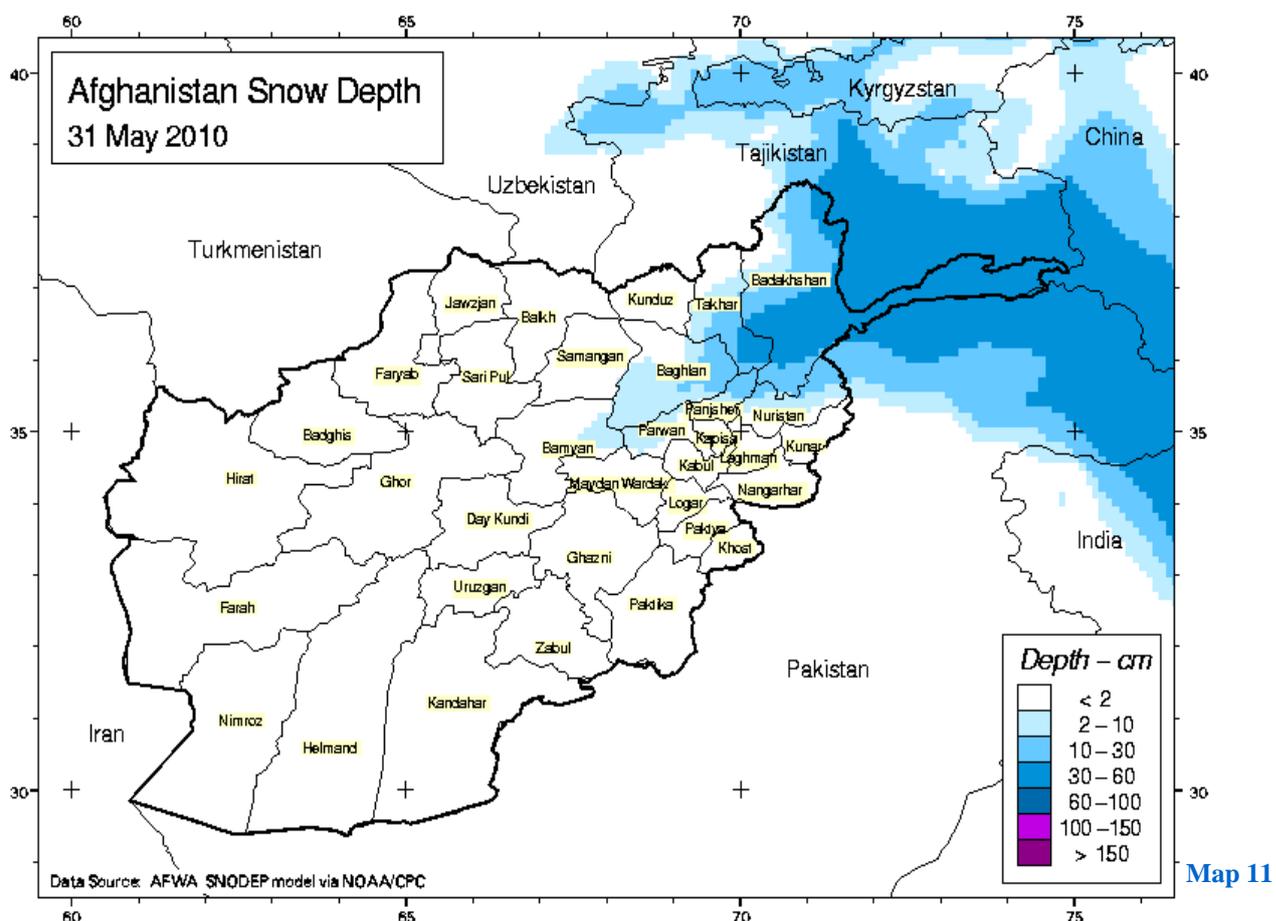
Flood Information

Date	Province	Damaged lands	Animal mortality
8-May-10	Kabul	1 Hectare Agricultural land	23
May-10	Jawzjan	8000 Hectares Agricultural land	0
1-May-10	Samangan	40 Hectares Agricultural land	0
6-May-10	Baghlan	100 Hectares Agricultural lands	0
8-May-10	Takhar	20 Hectares Agricultural lands	0
5-May-10	Hirat	300 Hectares Agricultural lands	0
7-May-10	Bamyan	135 Hectares Agricultural lands	53
17-May-10	Nangarhar	34 Hectares Agricultural lands, 2 Hectares Garden	50
1-May-10	Logar	75% Vineyards, Apples, Apricots, Tomatoes, Onions, Potatoes and Fruit trees	0
6-May-10	Parwan	235 Hectares Agricultural land, 19117 Fruit trees	146
6-May-10	Urozgan	1152 Hectares Agricultural lands,	267

Comparison of Historical Number of Floods in May to the Number of Reported Floods During May 2010



Afghanistan Snow Depth for the of May 2010



Map (11) shows snow depth for the end of May 2010 in recorded 30 to 60 cm for the Northeastern region and the Northeastern region, which snow depth has been 2 – 10 cm for the some parts of Capital region.

For more information please contact:

Name	Position	Cell	Email Address
Abdul Qadir Qadir	Director of AMA (Ministry of Transportation)	0799315843	afghanistan_met_authority@hotmail.com
Nasir Ahmad Fayez	Director of Irrigation (Ministry of Agriculture)	0700476311	Abc.fna.2008@yahoo.com

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